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Notice of Allowability

Application No.

09/625,014

Examiner

Judson H. Jones

Applicant(s)

SOGARD ET AL.

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 1/28/2004.
2. ☒ The allowed claim(s) is/are 1-58 and 60-76.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

Drawings

The proposed drawing corrections filed 10/13/2000 were approved and the new formal drawings were received. Drawings 7-17 all have hand drawn numerals in the figure labels and drawing 17 also has hand drawn element numbers. Formal drawings are needed for figures 7-17.

Claim Objections

The objection to claim 15 is withdrawn. The claim can be understood as written.

Allowable Subject Matter

Claims 1-58 and 60-76 allowed.

The following is an examiner's statement of reasons for allowance: The prior art of record does not disclose or teach an auxiliary conductor portion for a motor where the auxiliary conductor reduces the stray flux of the drive winding and where the auxiliary conductor moves concurrently with the motor drive and generates an auxiliary magnetic field that reduces the stray magnetic field as recited in claim 1. The prior art of record does not disclose or teach an exposure apparatus in combination with a brushless motor having an auxiliary conductor array that generates an auxiliary magnetic field and reduces the stray magnetic field as recited in claims 23, 70, 74 and 75. The prior art of record does not disclose or teach a method of manufacture for an electric motor having an auxiliary conductor moves concurrently with the motor drive and generates an auxiliary magnetic field that reduces the stray magnetic field as recited in claim 44. The prior art of record does not disclose or teach an auxiliary conductor portion for a motor where the auxiliary conductor reduces the stray flux of the drive winding and where the auxiliary conductor substantially encircles the drive conductor as recited in claim 60.

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The prior art of record does not disclose or teach an auxiliary conductor array for a motor wherein the auxiliary conductor array reduces the stray flux of the motor and includes a left transverse segment and a right transverse segment that is spaced apart from the left transverse segment, wherein when a current is directed through the auxiliary conductor array, the left transverse segment generates a force that is substantially equal and opposed to a force generated by the right transverse segment as recited in claim 66. The prior art of record does not disclose or teach an auxiliary conductor array for a motor wherein the auxiliary conductor array reduces the stray magnetic field by a factor of at least 100 as recited in claim 67. The prior art of record does not disclose or teach an auxiliary conductor array for a motor for reducing the stray flux of a motor wherein the magnet component includes a pair of spaced apart magnet arrays and the motor drive conductor component is positioned between the magnet arrays as recited in claim 68.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Judson H. Jones whose telephone number is 571-272-2025. The examiner can normally be reached on 8-4:30 M-F.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



JHJ 3/8/2004


THANH LAM
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